

Department of Veterans Affairs
Decentralized Hospital Computer Program

**MINIMAL PATIENT DATASET
(MPD)
IRM USER MANUAL**

Version 1.0

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Preface

The Minimal Patient Dataset (MPD) software enables DHCP personnel to search for treatment dates, treatment locations, and the type(s) of care a patient has received throughout the VA healthcare system. Interactive MPD reads the data from the MPD CD-ROM through the use of a DHCP option and returns it in List Manager screen format. The Patient Locator is an alternative to Interactive MPD. It allows users to request more current patient treatment information from the EDR and/or IPDB Databases and returns the data in an electronic mail message.

Instructions for the use of the Interactive MPD and the Patient Locator software are in the MPD V. 1.0 DHCP User Manual.

This manual provides the following information to Information Resources Management (IRM) Service personnel:

- Instructions for using the CD-ROM Server Menu options
- A Troubleshooting Section for problems they might encounter while using the software
- A Reference Section to illustrate various processes of the software

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Introduction

Interactive MPD and Patient Locator

The Minimal Patient Dataset (MPD) software enables DHCP personnel to search for treatment dates, treatment locations, and the type(s) of care a patient has received throughout the VA healthcare system. Interactive MPD reads the data from the MPD CD-ROM through the use of a DHCP option and returns it in List Manager screen format.

The Patient Locator is an Application Programmer Interface (API) being released with MPD as an alternative to Interactive MPD. It allows users to access more current patient treatment information. MPD reads and returns data stored on a CD-ROM for a limited time period. The Patient Locator searches "live" databases (EDR and/or IPDB) for a user-specified date range and returns current patient information in an electronic mail message.

Main MPD Menu [VAMP MAIN MENU]

This menu contains the Interactive MPD and Patient Locator options used by DHCP personnel to search for patient treatment information. Instructions for using the options in this menu are in the MPD V. 1.0 DHCP User Manual.

CD-ROM Server Menu [VAMC MAIN MENU]

This menu contains the following menus and options for use by IRM Service personnel for which instructions are provided in this manual:

1. Operations Menu [VAMC OPERATIONS MENU]
 1. Status of CD-ROM Server [VAMC STATUS]
 2. Start CD-ROM Server [VAMC START SERVER]
 3. Stop CD-ROM Server [VAMC STOP SERVER]
 4. Abort request currently being served [VAMC ABORT REQUEST]
2. Configuration Menu [VAMC CONFIGURATION MENU]
 1. Edit CD-ROM's location [VAMC CDROM LOCATION EDIT]
 2. Edit location [VAMC LOCATION EDIT]
 3. Print listing of current CD-ROMs [VAMC PRINT CDROMS]
3. Statistics Menu [VAMC STATISTICS MENU]
 1. Print statistics for a single scheme [VAMC SINGLE SCHEME STATS]
 2. Print statistics for all schemes [VAMC ALL SCHEME STATS]
 3. Reset statistics for a single scheme [VAMC RESET SINGLE SCHEME STATS]

Troubleshooting Tips

This section provides step-by-step instructions for resolving potential problems that might occur while using the MPD software. Several possible scenarios are presented.

Reference Section

This section contains several diagrams designed to increase understanding of various MPD software processes.

Related Manuals

- MPD V. 1.0 DHCP User Manual
- MPD V. 1.0 Installation Guide
- MPD V. 1.0 Package Security Guide
- MPD V. 1.0 Technical Manual

Orientation

Package Operation

The Package Operation section provides documentation of each option. Included is a brief introduction to the option, a sample of what might appear on your screen when using the option, and sample outputs (when applicable).

User Responses

All user responses are shown in boldface type. The <RET> symbol is used when referring to the user pressing the Return or Enter key. The <^> symbol is used when referring to the up-arrow or caret.

List Manager

MPD V. 1.0 uses the List Manager utility, a tool designed to list items for selection and action. A double question mark entered at the "Select Action." prompt gives you a list of all actions available for a particular screen. You can also refer to the List Manager Appendix of this manual for help.

Package Management

1. The MPD package provides VA medical centers with the ability to determine whether a patient has been seen at other VA facilities. Proper handling of this information is important to ensure patient confidentiality.
2. Per VHA Directive 10-93-142 regarding security of software, do not modify the MPD routines and data dictionaries due to the high level of package integration.
3. Security keys have been added to some MPD options to ensure proper access for appropriate personnel. (For information about security keys, contact your Information Security Officer [ISO].)

Package Operation

On-line Help

When the format of a response is specific, a Help message is usually provided for that prompt. Help messages provide lists of acceptable responses or format requirements which provide instruction on how to respond.

A Help message can be requested by typing one or two question marks. The Help message will appear under the prompt, then the prompt will be repeated. For example, perhaps you see the prompt

```
Enter Last Date Of Visit: APR 30,1994//
```

and you need assistance answering. You enter ? and the Help message would appear.

```
Enter Last Date Of Visit: APR 30,1994// ?
```

Examples of Valid Dates:

JAN 20 1957 or 20 JAN 57 or 1/20/57 or 012057

T (for TODAY), T+1 (for TOMORROW), T+2, T+7, etc.

T-1 (for YESTERDAY), T-3W (for 3 WEEKS AGO), etc.

If the year is omitted, the computer uses the CURRENT YEAR.

You may omit the precise day, as: JAN, 1957

If the date is omitted, the current date is assumed.

Follow the date with a time, such as JAN 20@10, T@10AM, 10:30, etc.

You may enter a time, such as NOON, MIDNIGHT or NOW.

Seconds may be entered as 10:30:30 or 103030AM.

Enter the date the patient was last seen at that facility.

```
Enter Last Date Of Visit: APR 30,1994//
```

For some prompts, the system will list the possible answers from which you can choose. Any time choices appear with numbers, the system will usually accept the number or the name.

Note to Users With QUME Terminals

It is very important that you set up your Qume terminal properly. After entering your access and verify codes, you will see the following prompt.

```
Select TERMINAL TYPE NAME: {type}//
```

Please make sure that C-QUME is entered here. This entry will become the default and you can then enter <RET> for all subsequent log-ins. If any other terminal type configuration is set, options using the List Manager utilities will neither display nor function properly on your terminal.

CD-ROM Server Menu [VAMC MAIN MENU]

1. Operations Menu [VAMC OPERATIONS MENU]

1. Status of CD-ROM Server [VAMC STATUS]

Introduction

Use this option to display the following information about the current status (as defined in the VAM - CONTROLLER file [#394.94]) of the CD-ROM Server:

- Whether or not the server is currently running
- If running, the date and time the server was started and the current task being processed.
- If not running, the date and time the server was stopped and the reason it was stopped.

The current server status is automatically displayed whenever you select any option in the Operations Menu [VAMC OPERATIONS MENU].

Example

```
Select Operations Menu Option: 1  Status of CD-ROM Server
Status of CD-ROM Server

Current status of CD-ROM Server
-----
CD-ROM Server running ... Yes
Date/time started ..... 01-17-1995 at 5:04 PM

CD-ROM Server is polling for requests

Press <RETURN> or <ENTER> to continue ...
```

CD-ROM Server Menu [VAMC MAIN MENU]

- 1. Operations Menu [VAMC OPERATIONS MENU]**
- 2. Start CD-ROM Server [VAMC START SERVER]**

Introduction

Use this option to start the CD-ROM Server, and change its status to RUNNING. The MPD CD-ROM is accessible from DHCP only when the CD-ROM Server is running.

The current server status and the reason why the server was stopped are displayed when you select this option. You should review this status information to ensure that the server is STOPPED before you attempt to use the Start CD-ROM Server [VAMC START SERVER] option.

After using this option, you should follow these steps to ensure that the server is RUNNING:

1. Log off the server.
2. Log into DHCP.
3. Post the encryption/decryption key (available from your Information Security Officer [ISO]).
4. If the software does not acknowledge that the key is posted, check the server status.

In some instances, the status might indicate that the server is RUNNING, even though it is actually STOPPED. If you suspect that the status is incorrect, use the System Status[XUSTATUS] option in the Operations Management Menu [XUSITEMGR] of EVE and review the VAMC* routines for the status screens.

CD-ROM Server Menu [VAMC MAIN MENU]

1. Operations Menu [VAMC OPERATIONS MENU]

2. Start CD-ROM Server [VAMC START SERVER]

Example

```
Select Operations Menu Option: 2      Start CD-ROM Server

Status of CD-ROM Server

Current status of CD-ROM Server
-----
CD-ROM Server running ... No
Date/time stopped ..... 01-17-1995 at 8:04 AM
Reason -> Error occurred while polling for requests

Are you sure you want to start the CD-ROM Server? YES//
```

If your response is ...	If your response is ...
<p>NO</p> <p>The following appears:</p> <pre>** CD-ROM Server will not be started ** Press <RETURN> or <ENTER> to continue ...</pre>	<p><RET> or YES</p> <p>The queued task number, date, and time are displayed to acknowledge that TaskMan is handling your request to start the server.</p> <pre>Please wait while CD-ROM Server is queued CD-ROM Server successfully queued as task number 5026 Task requested to start on 01-17-1995 at 8:04 AM</pre> <p>You are then reminded to store the encryption/decryption key, which contains at least 8, and no more than 9, characters. When you use the ninth character, which is a checksum digit, there is a greater chance that the key is entered correctly. (Each CD-ROM has a unique key, which is available from your ISO.)</p> <pre>##### ## Remember to post encryption/decryption key from ## ## DHCP system using the 'VAMP POST KEY' OPTION ## ##### Press <RETURN> or <ENTER> to continue ...</pre>

CD-ROM Server Menu [VAMC MAIN MENU]

- 1. Operations Menu [VAMC OPERATIONS MENU]**
- 3. Stop CD-ROM Server [VAMC STOP SERVER]**

Introduction

Use this option to stop the CD-ROM Server and change its status to STOPPED. Because stopping the CD-ROM Server makes the MPD CD-ROM inaccessible from DHCP, this option should only be used when necessary. For example, use it in the following situations:

- When mounting a new MPD CD-ROM
- When the system must be shut down quickly
- When new CD-ROM Server software is being loaded

The current server status is displayed when you select this option. You should review this status information to ensure that the server is RUNNING before you attempt to use the Stop CD-ROM Server [VAMC STOP SERVER] option.

Warning

When you attempt to stop the server with this option, the request currently being served will continue processing until completion. However, requests waiting to be processed will be lost and must be reentered after the server is restarted. If you must shut down quickly, you should use the Abort request currently being served [VAMC ABORT REQUEST] option before stopping the server.

In some instances, the status might indicate that the server is STOPPED, even though it is actually RUNNING. If you suspect that the status is incorrect, use the System Status[XUSTATUS] option in the Operations Management Menu [XUSITEMGR] of EVE and review the VAMC* routines for the status screens.

CD-ROM Server Menu [VAMC MAIN MENU]

1. Operations Menu [VAMC OPERATIONS MENU]

3. Stop CD-ROM Server [VAMC STOP SERVER]

Example

```
Select Operations Menu Option: 3    Stop CD-ROM Server

Current status of CD-ROM Server
-----
CD-ROM Server running ... Yes
Date/time started ..... 01-17-95 at 9:57 AM

CD-ROM Server is polling for requests

Are you sure you want to stop the CD-ROM Server ? YES//
```

If your response is ...	If your response is ...
<p>NO</p> <p>The following appears:</p> <pre>** CD-ROM Server will not be stopped ** Press <RETURN> or <ENTER> to continue ...</pre>	<p><RET> or YES</p> <p>You can use free text to enter or edit the reason for stopping the server. The text entered here is displayed to DHCP personnel when they attempt to enter requests while the server is stopped.</p> <pre>Reason for stopping CD-ROM Server (3 - 80 characters): CD-ROM Server has been stopped Replace</pre> <p>The software then acknowledges your request to stop the server.</p> <pre>CD-ROM Server has been asked to stop Press <RETURN> or <ENTER> to continue ...</pre>

CD-ROM Server Menu [VAMC MAIN MENU]**1. Operations Menu [VAMC OPERATIONS MENU]****4. Abort request currently being served [VAMC ABORT REQUEST]****Introduction**

Use this option to ask the request that is currently being served to abort (stop processing).

This does not force the CD-ROM Server to stop. It only affects the request currently being served.

Use this option under the following conditions:

- You need to shut down the CD-ROM Server quickly.
- A request is sent before the encryption/decryption key is posted.
- A request is sent in error (too large, incorrect SSN, etc.).

The current server status is displayed when you select this option. You should review this status information to ensure that the server is RUNNING before you attempt to use the Abort request currently being served [VAMC ABORT REQUEST] option.

Warning

If you attempt to stop the server without first using this option, the request currently being served will continue processing until completion. However, requests waiting to be processed will be lost and must be reentered after the server is restarted. If you must shut down quickly, you should use this option before stopping the server.

In some instances, the status might indicate that the server is RUNNING, even though it is actually STOPPED. If you suspect that the status is incorrect, use the System Status [XUSTATUS] option in the Operations Management Menu [XUSITEMGR] of EVE and review the VAMC* routines for the status screens.

CD-ROM Server Menu [VAMC MAIN MENU]

1. Operations Menu [VAMC OPERATIONS MENU]

4. Abort request currently being served [VAMC ABORT REQUEST]

Example

```
Select Operations Menu Option: 4   Abort request currently being served
```

```
Current status of CD-ROM Server
```

```
-----
```

```
CD-ROM Server running ... Yes
```

```
Date/time started ..... 01-17-95 at 9:27 AM
```

```
CD-ROM Server is polling for requests
```

```
Are you sure you want the current request aborted? YES//
```

If your response is ...	If your response is ...
NO The following appears: ** Current request will not be asked to abort ** Press <RETURN> or <ENTER> to continue ...	<RET> or YES The software acknowledges your request to abort the request currently being served. Current request has been asked to abort Press <RETURN> or <ENTER> to continue ...

CD-ROM Server Menu [VAMC MAIN MENU]**2. Configuration Menu [VAMC CONFIGURATION MENU]****1. Edit CD-ROM's location [VAMC CDROM LOCATION EDIT]****Introduction**

Use this option to edit entries in the VAM - LOCATION file (#394.97). The VAM - LOCATION file (#394.97) contains physical location names, and is pointed to by the VAM - CD-ROM file (#394.95). The VAM - CD-ROM file (#394.95) contains the following information about the CD-ROM:

- Name
- Description
- Location
- Name of a variable containing the encryption/decryption key (only if the CD-ROM is encrypted)
- Whether or not the CD-ROM is sharable (i.e., can be accessed by multiple schemes simultaneously)

You should use this option to update existing locations only. You should not attempt to add new locations or delete existing locations.

Before using this option, take the following steps to ensure that the status of the CD-ROM Server is STOPPED:

1. Use the Abort request currently being served [VAMC ABORT REQUEST] option to stop processing requests (the server status must be RUNNING).
2. Use the Stop CD-ROM Server [VAMC STOP SERVER] option to stop the server (changes the server status to STOPPED).

Warning

If you attempt to stop the server without first using the Abort request currently being served [VAMC ABORT REQUEST] option, the request currently being served will continue processing until completion. However, requests waiting to be processed will be lost and must be reentered after the server is restarted. If you must shut down quickly, you should use the Abort request currently being served [VAMC ABORT REQUEST] option before stopping the server.

In some instances, the status might indicate that the server is STOPPED, even though it is actually RUNNING. If you suspect that the status is incorrect, use the System Status [XUSTATUS] option in the Operations Management Menu [XUSITEMGR] of EVE and review the VAMC* routines for the status screens.

CD-ROM Server Menu [VAMC MAIN MENU]

2. Configuration Menu [VAMC CONFIGURATION MENU]

1. Edit CD-ROM's location [VAMC CDROM LOCATION EDIT]

Introduction, cont.

With this version of MPD, you can choose from the following CD-ROM names:

- DES Encryption Board
- MPD

The first two prompts will be the same, regardless of your response to the "Select VAM - CD-ROM NAME:" prompt.

"NAME:"

The name of the CD-ROM used for identification by the CD-ROM Client.

"DESCRIPTION:"

Definition of the information contained on the CD-ROM or DES Encryption Board.

Subsequent prompts will vary depending on which CD-ROM name you choose.

DES PROMPTS	MPD PROMPTS
BASE ADDRESS: 688// IRQ LEVEL: Entries are made in these fields if the location is a PC board. This prevents hard coding of the data in these fields by routines. These fields are not used if the location is for a CD-ROM.	UCI: MPD// VOLUME SET: MPD// Entries are made in these fields if the location is a CD-ROM containing a mountable MSM database. These fields are not used when the CD-ROM contains host files or if the location is for a PC board.

CD-ROM Server Menu [VAMC MAIN MENU]**2. Configuration Menu [VAMC CONFIGURATION MENU]****1. Edit CD-ROM's location [VAMC CDROM LOCATION EDIT]****Example**

```
Select Configuration Menu Option: 1  Edit CD-ROM's location

Select VAM - CD-ROM NAME: MPD
NAME: MPD// <RET>
DESCRIPTION: Minimal Patient Database  Replace <RET>
  UCI: MPD// <RET>
  VOLUME SET: MPD// <RET>

Select VAM - CD-ROM NAME:
```

CD-ROM Server Menu [VAMC MAIN MENU]

2. Configuration Menu [VAMC CONFIGURATION MENU]

2. Edit location [VAMC LOCATION EDIT]

Introduction

Use this option to edit entries in the VAM - LOCATION file (#394.97) which contains the following information:

- Location names
- CD-ROM names
- Location types
- UCI
- Volume set
- Drive letter of the drive containing the CD-ROM
- Base address of DES Card
- IRQ level of DES Card
- Whether or not the CD-ROM is mounted in the CD-ROM drive
- Whether or not the CD-ROM is ready for use
- Whether or not a non-sharable CD-ROM is currently in use

Use this option to update existing locations only. You should not attempt to add new locations or delete existing locations. You should not attempt to edit information about the DES Card.

Before using this option, take the following steps to ensure that the status of the CD-ROM Server is STOPPED:

1. Use the Abort request currently being served [VAMC ABORT REQUEST] option to stop processing requests (the server status must be RUNNING).
2. Use the Stop CD-ROM Server [VAMC STOP SERVER] option to stop the server (changes the server status to STOPPED).

Warning

If you attempt to stop the server without using the Abort request currently being served [VAMC ABORT REQUEST] option, the request currently being served will continue processing until completion. However, requests waiting to be processed will be lost and must be reentered after the server is restarted. If you must shut down quickly, you should use the Abort request currently being served [VAMC ABORT REQUEST] option before stopping the server.

CD-ROM Server Menu [VAMC MAIN MENU]**2. Configuration Menu [VAMC CONFIGURATION MENU]****2. Edit location [VAMC LOCATION EDIT]****Introduction, cont.**

In some instances, the status might indicate that the server is STOPPED, even though it is actually RUNNING. If you suspect that the status is incorrect, use the System Status [XUSTATUS] option in the Operations Management Menu [XUSITEMGR] of EVE and review the VAMC* routines for the status screens.

With this version of MPD, you can choose from the following location names:

- DES Board
- MPD

The first three prompts will be the same, regardless of your response to the “Select VAM - LOCATION:” prompt.

“LOCATION:”

The name of a location which contains a CD-ROM.

“CD-ROM:”

The name of the CD-ROM contained at this location.

“LOCATION TYPE:”

- Mountable Database (MD)
An MSM database mounted by the CD-ROM Server that contains a UCI and volume set.
- DOS Drive (DD)
A PC location (e.g., C: drive) that contains host files which can be accessed and read by the CD-ROM Server.
- PC Board (PB)
An internal PC board (e.g., DES Encryption Board) which is typically accessed through ZCALLS.

CD-ROM Server Menu [VAMC MAIN MENU]

2. Configuration Menu [VAMC CONFIGURATION MENU]

2. Edit location [VAMC LOCATION EDIT]

Introduction, cont.

Subsequent prompts will vary depending on which CD-ROM name you choose.

DES PROMPTS	MPD PROMPTS
<p>BASE ADDRESS: 688// IRQ LEVEL:</p> <p>Entries are made in these fields if the location is a PC board. This prevents hard coding of the data in these fields by routines. These fields are not used if the location is for a CD-ROM.</p>	<p>UCI: MPD// VOLUME SET: MPD//</p> <p>Entries are made in these fields if the location is a CD-ROM containing a mountable MSM database. These fields are not used when the CD-ROM contains host files or if the location is for a PC board.</p>

Example

```
Select Configuration Menu Option: 2  Edit location

Select VAM - LOCATION: MPD
LOCATION: MPD// <RET>
CD-ROM: MPD// <RET>
LOCATION TYPE: MOUNTABLE DATABASE// <RET>
UCI: MPD// <RET>
VOLUME SET: MPD// <RET>

Select VAM - LOCATION:
```

CD-ROM Server Menu [VAMC MAIN MENU]**2. Configuration Menu [VAMC CONFIGURATION MENU]****3. Print listing of current CD-ROMs [VAMC PRINT CDROMS]****Introduction**

Use this option to print a listing of all CD-ROMs that the VAM - CD-ROM file (#394.95) currently contains.

Example

```
Select Configuration Menu Option: 3  Print listing of current CD-ROMs

SORT BY: NAME// <RET>
START WITH NAME: FIRST// <RET>
DEVICE: <RET>  VIRTUAL TERMINAL      RIGHT MARGIN: 80// <RET>

Listing of CD-ROMs                      MAR 03,1995  09:09      PAGE 1
-----

NAME: DES ENCRYPTION BOARD
  DESCRIPTION: DES encryption standard on the Jones/Futurex ENC-300A board
  LOCATION: DES BOARD
    TYPE: PC BOARD
    BASE ADDRESS: 688                      IRQ LEVEL: NONE LISTED
    MOUNTED: YES                          ACCESSIBLE: YES

NAME: MPD
  DESCRIPTION: Minimal Patient Database
  LOCATION: MPD
    TYPE: MOUNTABLE DATABASE
    UCI: MPD                              VOLUME SET: MPD
    MOUNTED: YES                          ACCESSIBLE: YES

Press <RETURN> or <ENTER> to continue ...
```

CD-ROM Server Menu [VAMC MAIN MENU]

3. Statistics Menu [VAMC STATISTICS MENU]

1. Print statistics for single scheme [VAMC SINGLE SCHEME STATS]

Introduction

Use this option to print the statistics of a single scheme. You are prompted to select the scheme and a device.

Example

```
Select Statistics Menu Option: 1  Print statistics for single scheme

Select VAM - SEARCH SCHEME: MPD**00001

DEVICE: <RET>  VIRTUAL TERMINAL      RIGHT MARGIN: 80// <RET>

Search scheme statistics                      MAR  3,1995  11:15      PAGE 1
-----

Scheme: MPD**00001
Description: From MPD CD-ROM, return most recent dates of care for all sites
             visited
Requests: 3 accepted and 0 rejected
           Average acceptance time: 0.00 seconds
           Average rejection time: 0.00 seconds
Queries: 2 successful and 1 unsuccessful
          Average queries per request: 1.00
          Average query time: 1.67 seconds

Select VAM - SEARCH SCHEME:
```

CD-ROM Server Menu [VAMC MAIN MENU]**3. Statistics Menu [VAMC STATISTICS MENU]****2. Print statistics for all schemes [VAMC ALL SCHEME STATS]****Introduction**

Use this option to print statistics for all schemes on file. You are prompted for a device.

The format of the output generated by this option is the same as for the Print statistics for single scheme [VAMC SINGLE SCHEME STATS] option. If you send the output to a printer, multiple schemes print on a page. If you send the output to your screen, each scheme is on a separate page, and pressing <RET> at the end of a page displays the next page. After the last scheme prints, you automatically return to the menu.

Example

```
Select Statistics Menu Option: 2  Print statistics for all schemes

DEVICE: <RET>  VIRTUAL TERMINAL      RIGHT MARGIN: 80// <RET>

Search scheme statistics                      MAR  3,1995  11:16    PAGE 1
-----
Scheme: MPD**00001
Description: From MPD CD-ROM, return most recent dates of care for all sites
             visited
Requests:    3 accepted and 0 rejected
             Average acceptance time: 0.00 seconds
             Average rejection time: 0.00 seconds
Queries:     2 successful and 1 unsuccessful
             Average queries per request: 1.00
             Average query time: 1.67 seconds

Search scheme statistics                      MAR  3,1995  11:16    PAGE 2
-----
Scheme: MPD**00002
Description: From MPD CD-ROM, return all visit information
Requests:    24 accepted and 1 rejected
             Average acceptance time: 0.33 seconds
             Average rejection time: 0.00 seconds
Queries:     173 successful and 3 unsuccessful
             Average queries per request: 7.33
             Average query time: 0.60 seconds
```

CD-ROM Server Menu [VAMC MAIN MENU]

3. Statistics Menu [VAMC STATISTICS MENU]

2. Print statistics for all schemes [VAMC ALL SCHEME STATS]

Example, cont.

Search scheme statistics	MAR 3,1995 11:16	PAGE 3

Scheme: MPD**00003		
Description: Return configuration information stored on MPD CD-ROM		
Requests: 9 accepted and 0 rejected		
Average acceptance time: 0.22 seconds		
Average rejection time: 0.00 seconds		
Queries: 9 successful and 0 unsuccessful		
Average queries per request: 1.00		
Average query time: 1.22 seconds		
Search scheme statistics	MAR 3,1995 11:16	PAGE 4

Scheme: VAMCS00001		
Description: Scheme used for posting keys. Seeing 'rejected queries' is normal		
Requests: 0 accepted and 7 rejected		
Average acceptance time: 0.00 seconds		
Average rejection time: 0.00 seconds		
Queries: 0 successful and 0 unsuccessful		
Average queries per request: 0.00		
Average query time: 0.00 seconds		
Search scheme statistics	MAR 3,1995 11:16	PAGE 5

Scheme: VAMCS99998		
Description: Blank scheme for statistics of unknown schemes		
Requests: 0 accepted and 2 rejected		
Average acceptance time: 0.00 seconds		
Average rejection time: 0.00 seconds		
Queries: 0 successful and 0 unsuccessful		
Average queries per request: 0.00		
Average query time: 0.00 seconds		
Search scheme statistics	MAR 3,1995 11:16	PAGE 6

Scheme: VAMCS99999		
Description: Blank scheme for statistics of errors		
Requests: 0 accepted and 0 rejected		
Average acceptance time: 0.00 seconds		
Average rejection time: 0.00 seconds		
Queries: 0 successful and 0 unsuccessful		
Average queries per request: 0.00		
Average query time: 0.00 seconds		

CD-ROM Server Menu [VAMC MAIN MENU]**3. Statistics Menu [VAMC STATISTICS MENU]****3. Reset statistics for single scheme [VAMC RESET SINGLE SCHEME STATS]****Introduction**

This option is used to reset the statistics of a single scheme. Since this sets the values to zero, you might want to use the Print statistics for single scheme [VAMC SINGLE SCHEME STATS] option before using this option.

Example

```
Select Statistics Menu Option: 3  Reset statistics for single scheme

Select VAM - SEARCH SCHEME: MPD
    1  MPD**00001
    2  MPD**00002
    3  MPD**00003
CHOOSE 1-3: 3
Statistics for MPD**00003 have been reset

Select VAM - SEARCH SCHEME:
```


Troubleshooting Tips

What to do if the CD-ROM Server Fails

If the client is not working, or an error code indicates the server has stopped, determine the location of the problem. It might be a program error that caused the CD-ROM Server to stop, or the MSM system might have halted.

Take the following steps if the CD-ROM Server fails (errors out). (In this scenario, a system status command (**D ^%SS**) shows no VAMCS01 process in the UCI.)

- (1) Connect to the Server system.
- (2) Enter the Main MPD Menu [VAMC MAIN MENU]. (**D ^XUP**)
- (3) Enter the Operations Menu [VAMC OPERATIONS MENU].
- (4) Select the Start CD-ROM Server [VAMC START SERVER] option, and answer **YES** to the “Are you sure you want to start the CD-ROM server?” prompt.
- (5) **HALT** out of the Server.
- (6) Connect to a DHCP system that has the Client installed.
- (7) Enter the Post encryption/decryption key [VAMP KEY POSTING] option. (**D ^XUP**)
- (8) Post the key (available from your ISO).

What to do if the CD-ROM Server Will Not Start

Take the following steps if the MPD server was not shut down correctly, and you cannot start the CD-ROM Server. (In this scenario, you will receive a message similar to the following):

```
Server already running. Shut down the MPD server and re-start.
```

- (1) Go to the Programmer prompt on the Server, then go into VA FileManager. **(D P^DI)**
- (2) Select OPTION: **ENTER OR EDIT FILE ENTRIES.**
- (3) Edit Field #11 (SERVER RUNNING) of File #394.94 (VAM - CONTROLLER). Set it to **NO**.

```
INPUT TO WHAT FILE: VAM - CONTROLLER// <RET>
EDIT WHICH FIELD: ALL// 11
THEN EDIT FIELD: <RET>
```

```
Select VAM - CONTROLLER ONE: 1
```

```
SERVER RUNNING: YES// NO
```

```
Select VAM - CONTROLLER ONE: <RET>
```

```
Select OPTION: <RET>
>
```

- (4) Follow the instructions for “What to do if the CD-ROM Server Fails”.

What to do if the CD-ROM Server Will Not Stop

Take the following steps if the CD-ROM Server is asked to stop in the proper manner and a system status command (**D ^%SS**) shows that the VAMCS01 process is still running:

- (1) Log into the MGR account of the CD-ROM Server (enter **MGR:XXX** at the “UCI:” prompt).
- (2) Determine the job number of the CD-ROM Server (**D ^%SS**) and look for a process in the VAMCS namespace (such as VAMCS01).
- (3) Kill the CD-ROM Server (**D ^KILLJOB** and enter the number from step 2).
- (4) Leave the MGR account (^ to leave KILLJOB and **HALT** at the MUMPS prompt).
- (5) Follow the instructions for “What to do if the CD-ROM Server Fails”.

What to do if the Power Fails on the System Running the CD-ROM Server

Take the following steps if there is a power loss to the CD-ROM Server or the CD-ROM Server is brought to the DOS prompt without properly shutting down MSM:

- (1) At the DOS prompt, move to the MSM directory (**CD \MSM**).
- (2) Start MSM (**MSM**).
Configuration: **PPS**
Validate manager (MGR) UCI: **NO**
- (3) Log into the MGR account (enter **MGR:PPS** at the “UCI:” prompt).
- (4) Validate routines and globals for all UCIs (**D ^VALIDATE**).
UCI: **ALL**
Trace: **NO**
Data Types: **BOTH**
Globals: *****
Output Device: **1**
- (5) Mount the database (**D ^DBMAINT**).
- (6) Restart TaskMan (**D RESTART^ZTMB**).
TaskMan Not Running: **YES**
- (7) Leave MGR account (**HALT**).
- (8) Follow the instructions for “What to do if the CD-ROM Server Fails”.

What to do if the System Running the CD-ROM Server Must Be Shut Down

Take the following steps if the system running the CD-ROM Server must be shut down. This procedure will safely shut down both the MSM and the CD-ROM Server.

- (1) Connect to the system running the CD-ROM Server (from the console enter **VAH:XXX** at the “UCI:” prompt).
- (2) Go into the Main MPD Menu [VAMC MAIN MENU] (either as a secondary menu or through [XUCORE]).
- (3) Go into the Operations Menu [VAMC OPERATIONS MENU].
- (4) If the CD-ROM Server must be shut down quickly, you should use the Abort request currently being served [VAMC ABORT REQUEST] option before stopping the server; otherwise, the request currently being served will continue to completion.
- (5) Choose the Stop CD-ROM Server [VAMC STOP SERVER] option.
Stop Server: **YES**
- (6) Return to EVE.
- (7) Go into Task Manager.
- (8) Go into TaskMan Management Utilities.
- (9) Choose Stop Task Manager.
Active submanagers shut down: **YES**
- (10) **HALT** out of DHCP and wait about one minute. This will allow TaskMan to finish stopping.
- (11) Log into the MGR account (enter **MGR:XXX** at the “UCI:” prompt).
- (12) Be sure that all users and other processes have stopped (**D ^%SS**).
- (13) Shut down MSM (**D ^SSD**).
Proceed: **YES**
At this point, you return to the DOS prompt.

To restart the system, follow the steps for “What to do if the Power Fails on the System Running the CD-ROM Server.” Ignore the steps concerning UCI validation.

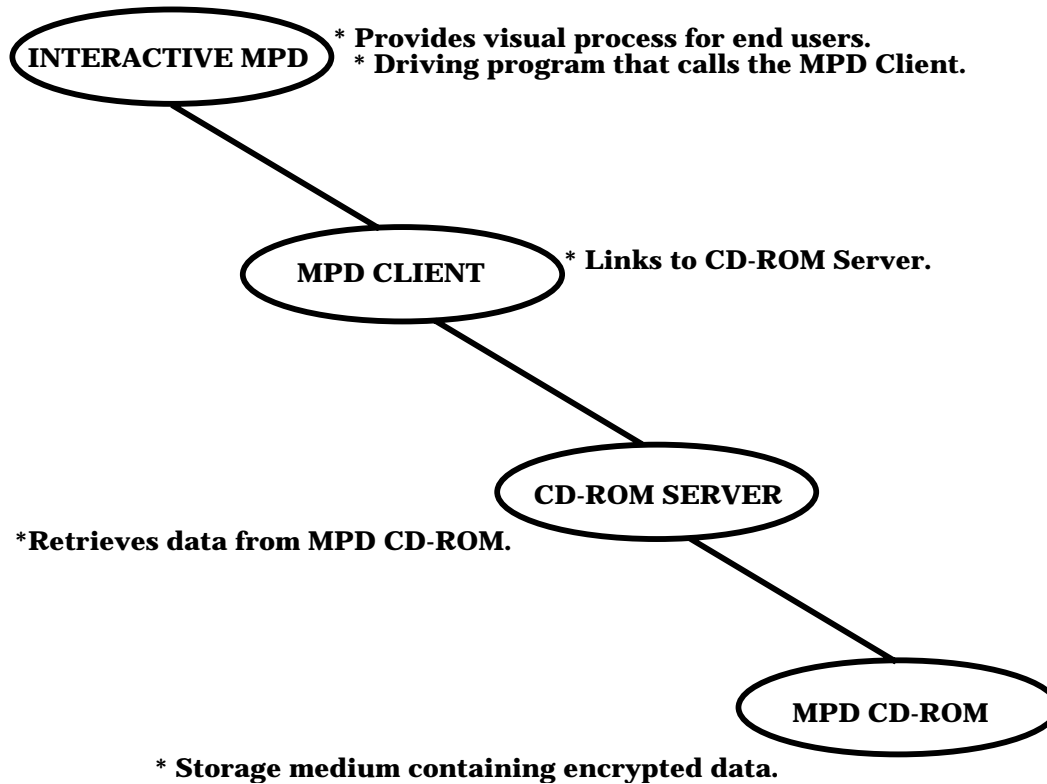
What to do if the ^TMP("VAMC" Global Fills Quickly

- (1) Make sure the CD-ROM server is not processing a request. From the server, check the Status of CD-ROM Server [VAMC STATUS] menu option under the Operations Menu [VAMC OPERATIONS MENU]. If the Server reports it is currently polling for requests, the global should be cleared.
- (2) If the global needs clearing, stop the server. Follow steps 1-4 in "What to do if the System Running the CD-ROM Server Must Be Shut Down".
- (3) Once the server has stopped, you can kill the ^TMP("VAMC", global.
K ^TMP("VAMC")
- (4) Follow the instructions for "What to do if the CD-ROM Server Fails".

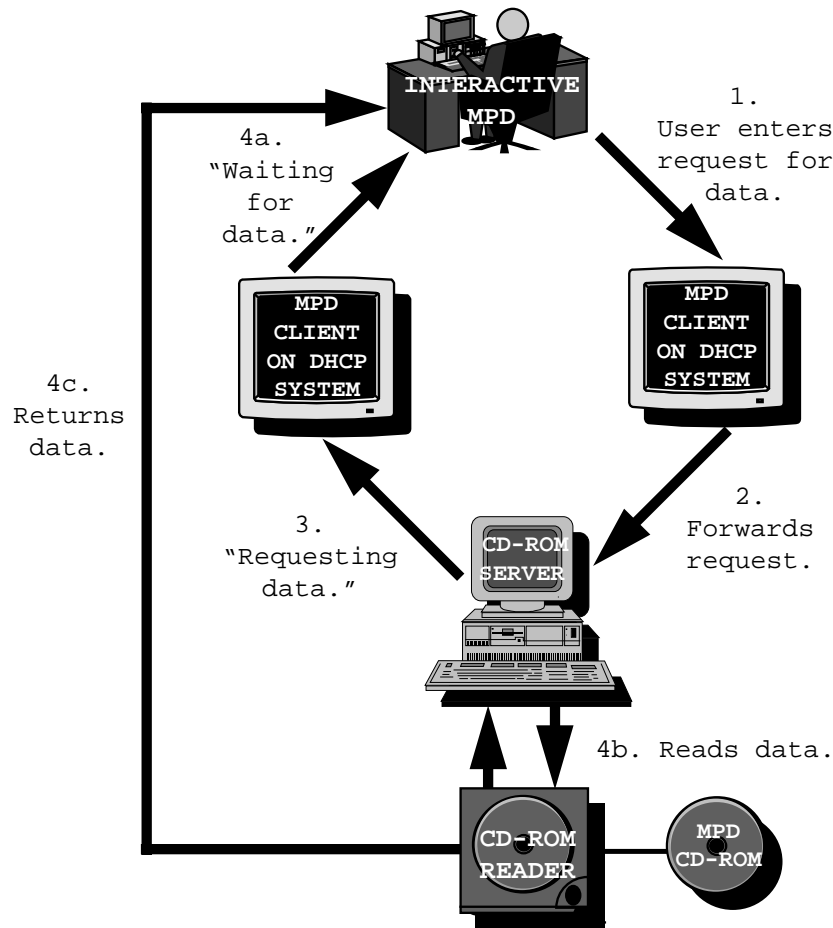
Reference Section

Interactive Processes Diagram

The following diagram shows how the various MPD processes interact to retrieve data from the MPD CD-ROM.



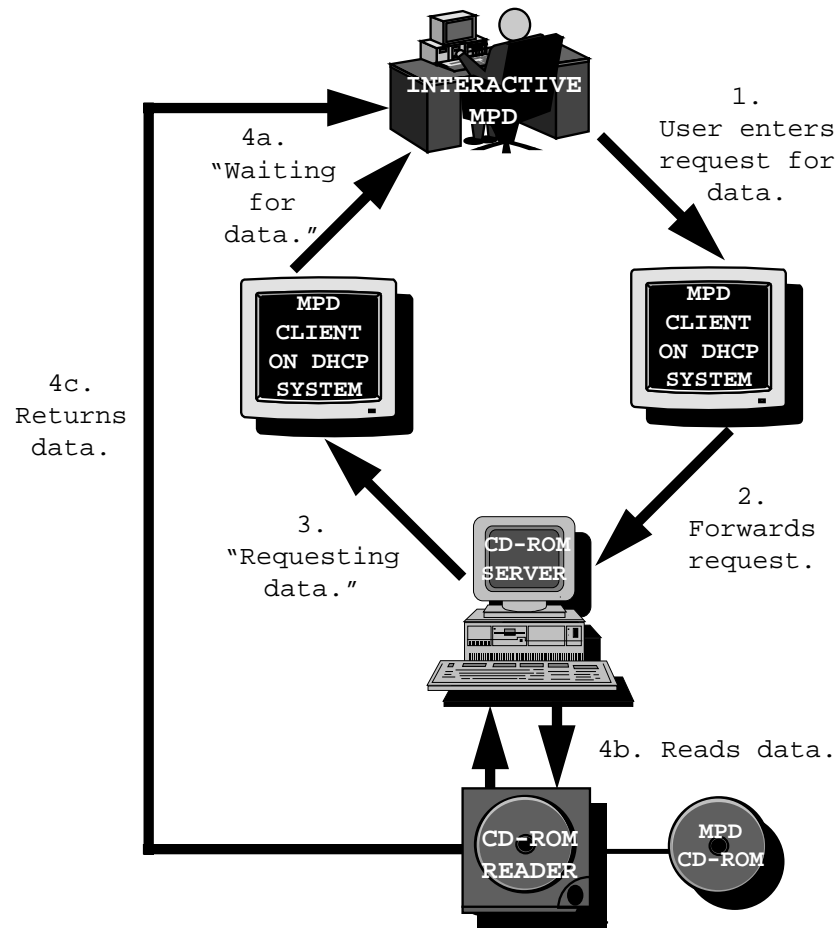
Single SSN Request Flow Diagram



In Step 1, the entry is the Interactive MPD process asking the MPD Client to get data. The Client forwards the request to the CD-ROM Server in Step 2. Next, the Server acknowledges in Step 3 that it is processing the Client's request. Then, three things happen in Step 4:

- In Step 4a, the Client displays the following message on the screen:
"Waiting for return of information"
- At the same time, in 4b, the Server reads the data from the CD-ROM.
- The Server returns the data for the SSN in 4c.

Multiple SSN Request Flow Diagram



In Step 1, the entry is the Interactive MPD process asking the MPD Client to get data. The Client forwards the request to the CD-ROM Server in Step 2. Next, the Server acknowledges in Step 3 that it is processing the Client's request. Then, three things happen in Step 4:

- In Step 4a, the Client displays the following message on the screen:
"Waiting for return of information concerning first SSN....."
- At the same time, in 4b, the Server reads the data from the CD-ROM.
- The Server returns the data for the first SSN in 4c.

Steps 4b and 4c repeat until the Server returns the data for all of the SSNs entered.

Reference Section

Glossary

API	Application Programmer's Interface
CD-ROM	Compact Disk-Read Only Memory A disk containing encrypted data that can be read but cannot be altered.
Decryption	Unscramble encrypted data so it is readable.
Encryption	Scramble sensitive information so it is unreadable.
Interactive MPD	Program that allows a user to submit an MPD query and displays the returned information.
Key	Used by encryption algorithm as a basis for scrambling.
List Manager	Software product designed to display information in hierarchical screen format.
MPD Client	Used by Interactive MPD and Pharmacy Prescription Practices to post a query or begin a search.
MPD Server	System that searches the CD-ROM for data and returns it to the MPD Client.
PDX	Patient Data Exchange Software application used to get more detail about patient visits at another facility.
PPP	Pharmacy Prescription Practices DHCP software designed to prevent multiple prescriptions at different sites.
Pseudo SSN	SSN calculated and assigned to a patient who was not given an SSN by the Social Security Administration (SSA).
Scheme	Method of searching.
SSN	Social Security Number

List Manager Appendix

The List Manager is a tool that displays a list of items in a screen format and provides the following functionality:

- Browse through the list.
- Select items that need action.
- Take action against those items.
- Select other List Manager actions without leaving the option.

You can select an action and entry number by using an equals sign (=), for example:

EP=1 will process entry 1 for Expand Entry
EP=3 4 5 will process entries 3, 4, 5 for Expand Entry
EP=1-3 will process entries 1, 2, 3 for Expand Entry

In addition to the various actions that might be available specific to the option in which you are working, List Manager provides generic actions applicable to the List Manager screen. Enter double question marks (??) at the "Select Action:" prompt for a list of all actions available.

On the following page is a list of basic List Manager actions with brief descriptions. This list might have been altered by the specific package in which you are working. The mnemonic for each action is shown in brackets [] following the action name. Entering the mnemonic is the quickest way to select an action.

Action	Description
Next Screen [+]	Move to the next screen.
Previous Screen [-]	Move to the previous screen.
Up a Line [UP]	Move up one line.
Down a Line [DN]	Move down one line.
Shift View to Right [>]	Move the screen to the right if the screen width is more than 80 characters.
Shift View to Left [<]	Move the screen to the left if the screen width is more than 80 characters.
First Screen [FS]	Move to the first screen.
Last Screen [LS]	Move to the last screen.
Go to Page [GO]	Move to any selected page in the list.
Re Display Screen [RD]	Redisplay the current screen.
Print Screen [PS]	Prints the header and the portion of the list currently displayed.
Print List [PL]	Prints the list of entries currently displayed.
Search List [SL]	Finds selected text in list of entries.
Auto Display(On/Off) [ADPL]	Toggles the menu of actions to be displayed/not displayed automatically.
Quit [QU]	Exits the screen.

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